

## CLAIMS

1. An elevator apparatus, comprising:

- a car for ascending and descending in a hoistway;
- a controller for controlling the ascending and descending of the car;
- braking means for braking the car;
- a car speed detector for detecting a running speed of the car;
- a car position detector for detecting a position of the car;

and

- an over speed monitoring portion for receiving information from the car speed detector and the car position detector, comparing an over speed set correspondingly to the position of the car with the running speed of the car, and actuating the braking means when the running speed of the car reaches the over speed,

wherein the over speed monitoring portion sets the over speed independently of the controller.

2. The elevator apparatus as claimed in Claim 1, wherein the over speed monitoring portion sets the over speed based on the running speed pattern of the car generated independently of the controller.

3. The elevator apparatus as claimed in Claim 2, wherein the over speed monitoring portion sets the over speed to be higher than

a running speed pattern obtained when the car runs normally from one terminal landing to the other terminal landing.

4. The elevator apparatus as claimed in Claim 2, wherein the over speed monitoring portion generates a running speed pattern when the car runs normally from a start floor to a destination floor, and sets the over speed so as to be higher than the running speed pattern.

5. The elevator apparatus as claimed in Claim 4, wherein when the destination floor is changed while the car is running, the over speed monitoring portion adjusts the running speed pattern and the over speed according to the change of the destination floor.

6. The elevator apparatus as claimed in Claim 4, further comprising:

destination floor buttons provided to the car; and

landing buttons provided to landings,

wherein the over speed monitoring portion generates the running speed pattern based on call registration information obtained from at least one of the destination floor buttons and the landing buttons.

7. The elevator apparatus as claimed in Claim 1, further comprising a load weighing device for detecting a weight of the

car,

wherein the over speed monitoring portion adjusts the over speed according to car weight information obtained from the load weighing device.

8. The elevator apparatus as claimed in Claim 2, wherein:  
the controller generates the running speed pattern of the car;  
and

the over speed monitoring portion compares the running speed pattern generated by the controller with the running speed pattern used by the over speed monitoring portion, and when a difference between the two running speed patterns is equal to or more than a preset value, actuates the braking means.

9. An elevator apparatus, comprising:  
a car for ascending and descending in a hoistway;  
braking means for braking the car;  
a car speed detector for detecting a running speed of the car;  
a load weighing device for detecting a weight of the car; and  
an over speed monitoring portion for receiving information from the car speed detector, comparing a set over speed with the running speed of the car, and actuating the braking means when the running speed of the car reaches the over speed,

wherein the over speed monitoring portion adjusts the over

speed according to car weight information obtained from the load weighing device.